

BEGIN — JULY 17, 1960

30.24-12455

A163WX

(ADVANCE FOR 5:30 P.M. EST SUNDAY, JULY 17--NOTE DATE)
(600) UNDERGROUND EXPLOSIONS

BY FRANK CAREY

(ADVANCE) WASHINGTON, JULY 17 (AP)--THE UNITED STATES DISCLOSED TODAY IT PLANS 11 SMALL UNDERGROUND NUCLEAR EXPLOSIONS IN THE NEXT TWO YEARS AS PART OF A RESEARCH PROGRAM TO IMPROVE METHODS FOR DETECTING SUBSURFACE ATOMIC BLASTS.

PRESIDENT EISENHOWER ON MAY 7 ANNOUNCED A NEW SERIES OF UNDERGROUND TESTS--FIRST NUCLEAR TESTS OF ANY KIND TO BE CONDUCTED BY THE UNITED STATES SINCE LATE 1958. BUT THE NUMBER PLANNED HAS NOT PREVIOUSLY BEEN MADE PUBLIC.

DURING THE SAME TWO-YEAR INTERVAL, DATING FROM JULY 1 OF THIS YEAR, POSSIBLY AS MANY AS 21 SUBSURFACE EXPLOSIONS INVOLVING CONVENTIONAL HIGH EXPLOSIVES WILL BE SET OFF IN THE SAME PROGRAM.

AT THE SAME TIME, THE GOVERNMENT GAVE NEW DETAILS OF A LESS EXTENSIVE RESEARCH PROGRAM IN THE FIELD OF DETECTING UNDERGROUND EXPLOSIONS WHICH HAS BEEN UNDERWAY SINCE 1948.

ONE OF THE MAJOR PHASES OF THIS EARLIER PROGRAM, IT WAS INDICATED, HAS BEEN AN EFFORT TO KEEP TABS ON ANY KIND OF EARTHSHOCK ACTIVITY--NATURAL OR MAN-MADE--ORIGINATING IN RUSSIA.

THE NEWER, AND VASTLY EXPANDED, PROGRAM HAS TWO BASIC AIMS. ONE IS TO DEVELOP EFFECTIVE DETECTION OF SNEAK UNDERGROUND NUCLEAR TESTS. THE OTHER IS DEVELOPMENT OF THE PEACEFUL USES OF NUCLEAR EXPLOSIVES, SUCH AS THE POSSIBILITY OF DIGGING CANALS, DIVERTING RIVERS FOR IRRIGATION, AND OPENING UP NEW NATURAL RESOURCES.

THE DISCLOSURE OF THE NUMBER OF SHOTS PLANNED WAS MADE IN A DEFENSE DEPARTMENT DOCUMENT MADE PUBLIC BY THE JOINT SENATE-HOUSE ATOMIC COMMITTEE.

THE DOCUMENT, PROVIDED BY THE DEPARTMENT'S ADVANCE RESEARCH PROJECTS AGENCY (ARPA), WAS FURNISHED TO THE CONGRESSIONAL COMMITTEE FOLLOWING THE PUBLIC HEARINGS.

TODAY'S DISCLOSURE NOT ONLY CONSTITUTED THE FIRST LISTING OF THE NUMBER OF SHOTS PLANNED, BUT ALSO THE FIRST DETAILED BREAKDOWN OF THE COST.

TODAY'S STATEMENT SAID VARIOUS PHASES OF THE PROGRAM DURING FISCAL YEAR 1961 WOULD COST \$65,840,000--INCLUDING \$42,990,000 FOR THE ACTUAL NUCLEAR AND NON-NUCLEAR BLASTS. NO COST ESTIMATES WERE LISTED FOR THE YEAR BEGINNING JULY, 1961 BUT IT LISTED \$8,645,000 ALLOCATED DURING THE FISCAL YEAR ENDED LAST JUNE 30.

DECLARING THE PROGRAM OUTLINED IS ONLY THE FIRST PART OF A CONTINUING RESEARCH PROGRAM IN THIS FIELD, THE ARPA STATEMENT SAID:

"DETAILED PLANS FOR THE LARGER RANGE FUTURE HAVE NOT BEEN PREPARED, SINCE THE RESULTS OBTAINED DURING THE INITIAL YEARS (FISCAL YEARS 1960 AND 1961) ARE EXPECTED TO YIELD SIGNIFICANT, BUT UNPREDICTABLE RESULTS WHICH WILL INFLUENCE LONG RANGE PLANNING."

A SUPPLEMENTARY ATTACHMENT IN THE HEARINGS BOOK WAS A STATEMENT ENTITLED "HIGHLIGHTS OF DEPARTMENT OF DEFENSE SEISMIC RESEARCH PROGRAM: 1948-1960." THIS SAID THAT SINCE APRIL, 1948, THE AIR FORCE, UNDER DEFENSE DEPARTMENT SPONSORSHIP, HAS CONDUCTED "A REASONABLY INTENSIVE PROGRAM OF SEISMIC RESEARCH AND DEVELOPMENT AIMED AT IMPROVEMENTS OF METHODS OF IDENTIFYING UNDERGROUND SEISMIC EVENTS."

IT SAID THAT ABOUT 8 MILLION DOLLARS HAS BEEN SPENT DURING THE PERIOD ON "NUCLEAR EXPLOSION SEISMOLOGY" AT MANY UNIVERSITIES, GOVERNMENT LABORATORIES AND PRIVATE INDUSTRIAL LABORATORIES.

THE DOCUMENT DECLARED THAT THE PRINCIPAL PROBLEMS THAT HAVE BEEN INVESTIGATED--BOTH THEORETICALLY AND BY ACTUAL EXPERIMENTS--INCLUDE THE FOLLOWING:

1. CRITERIA FOR DISTINGUISHING BETWEEN NATURAL EARTHQUAKES AND EXPLOSIONS.

2. STUDIES OF MICROSEISMIC NOISE--THAT IS, TINY EARTH SHOCKS--IN VARIOUS PARTS OF THE WORLD.

3. "STUDIES OF SEISMICITY IN THE U.S.S.R." THERE WAS NO AMPLIFICATION OF THIS BUT PRESUMABLY IT MEANT ATTEMPTS TO KEEP SEISMOGRAPHIC CHECKS ON ANY KIND OF EARTH TREMOR EMANATING FROM RUSSIA, EITHER FROM NATURAL EARTHQUAKES OR NUCLEAR EXPLOSIONS.

4. DEVELOPMENT OF IMPROVED SEISMOGRAPHS.

5. UTILIZATION OF AMERICAN NUCLEAR EXPLOSIONS AT ENIWETOK AND NEVADA TO STUDY THE GENERATION AND PROPAGATION OF SEISMIC WAVES.

JC1044PED

A63

(330)

ADVANCE FOR 5:30 P.M. EST

WITH WASHINGTON UNDERGROUND EXPLOSIONS (A163-164 LAST NIGHT)

BY MICHAEL GOLDSMITH

(ADVANCE) GENEVA, JULY 17 (AP)--THE U.S. PLAN TO CONDUCT NEW UNDERGROUND NUCLEAR TESTS, MADE PUBLIC IN WASHINGTON TODAY, HAS BEEN THE CENTER OF BITTER CONTROVERSY IN THE THREE-POWER TEST BAN TALKS IN GENEVA.

AN AMERICAN COMPROMISE LAST WEEK EVEN SOUGHT A WAY OUT OF THE DISPUTE BY OFFERING TO ALLOW SOVIET TECHNICIANS TO GO TO THE UNITED STATES AND EXPLODE THEIR OWN NUCLEAR WEAPONS IN SOME OF THE PLANNED TESTS. THE RUSSIANS HAVE NOT YET REPLIED.

SOVIET DELEGATE SEMYON K. TSARAPKIN HAS REPEATEDLY DEMANDED SAFEGUARDS TO PREVENT THE RESEARCH PROGRAM FROM BEING USED AS A CLOAK FOR SECRET TESTING OF NEW WEAPONS.

HE DEMANDED THAT SOVIET TECHNICIANS BE PERMITTED TO DISMANTLE EVERY NUCLEAR DEVICE TO BE USED IN THE PROGRAM AND EXAMINE ITS CONSTRUCTION. THIS WOULD REQUIRE A REVISION OF THE MACMAHON NUCLEAR SECURITY ACT.

TSARAPKIN AND OTHER SOVIET OFFICIALS HAVE THREATENED TO BREAK UP THE TEST BAN TALKS WITH THE UNITED STATES AND BRITAIN AND END THE TRUCE IN NUCLEAR TESTING UNLESS THE RUSSIANS RECEIVED FULL INSPECTION RIGHTS IN THE AMERICAN PROGRAM.

THIS TACIT TEST TRUCE WAS INTENDED MAINLY TO CREATE A FAVORABLE ATMOSPHERE FOR THE TALKS--THOUGH THESE HAVE MADE LITTLE SUBSTANTIAL PROGRESS SINCE THEY BEGAN 20 MONTHS AGO.

THE TWO WESTERN POWERS--AND BRITAIN IN PARTICULAR--ARE ANXIOUS TO PREVENT THE COLLAPSE OF THE ONLY REMAINING EAST-WEST NEGOTIATIONS IN THE ENTIRE RANGE OF ARMS CONTROL PROBLEMS.

FOR THIS REASON, U.S. AMBASSADOR JAMES J. WADSWORTH ON JULY 12 PRESENTED AN ELABORATE COMPROMISE PROPOSAL TO GIVE RUSSIA ADEQUATE SAFEGUARDS AGAINST MILITARY USE OF THE RESEARCH BLASTS.

HE SAID ONE-SIDED SOVIET INSPECTION EVEN OF OUT-DATED AMERICAN DEVICES MIGHT GIVE THE SOVIET UNION A MILITARY ADVANTAGE BY DISCLOSING AMERICAN WEAPON TECHNIQUES. BUT THIS OBJECTION COULD BE MET BY GIVING EACH SIDE SIMILAR INSPECTION FACILITIES, HE ADDED.

HE SUGGESTED THAT THE RESEARCH PROGRAM BE CONDUCTED WITH OBSOLETE WEAPONS FROM BOTH SIDES, WHICH WOULD ALL BE OPENED FOR RECIPROCAL EXAMINATION BEFORE BEING EXPLODED.

WADSWORTH URGED TSARAPKIN TO GIVE A QUICK REPLY, TO PERMIT PRESIDENT EISENHOWER TO PUT THE NECESSARY AMENDMENT OF THE MACMAHON ACT BEFORE NEXT MONTH'S SESSION OF CONGRESS.

TSARAPKIN EXPRESSED LITTLE ENTHUSIASM, BUT HAS NOT YET GIVEN THE KREMLIN'S FORMAL REPLY. HE IS EXPECTED TO DELIVER IT AT ONE OF THE DAILY MEETINGS THIS WEEK.

FV428PED

A108

(230)
MOSCOW, JULY 17 (AP)-MIKHAIL SUSLOV, SECRETARY OF THE SOVIET COMMUNIST PARTY'S CENTRAL COMMITTEE, SAID TODAY "THERE IS NO FATAL INEVITABILITY OF WAR IN OUR EPOCH" BUT THE DANGER OF WAR STILL EXISTS.

SUSLOV, ONE OF THE SOVIET UNION'S TOP THEORISTS, SPOKE AT A GOVERNMENT RECEPTION FOR SOVIET SCIENTISTS, LITERARY AND ART FIGURES AT A COUNTRY HOME OUTSIDE MOSCOW, TASS REPORTED.

PREMIER NIKITA KHRUSHCHEV WAS AMONG THE SOVIET OFFICIALS ATTENDING. TASS SAID KHRUSHCHEV MADE A STATEMENT BUT THERE WAS NO IMMEDIATE DISCLOSURE OF WHAT HE SAID.

THE SOVIET NEWS AGENCY SAID SUSLOV TOLD THE GROUP THE CAPITALIST POWERS, "ABOVE ALL THE AMERICAN IMPERIALISTS, HAD TAKEN CERTAIN STEPS TO RELAX INTERNATIONAL TENSION, THEY HAVE AGAIN REVERTED OF LATE TO THE ROAD OF PROVOCATIONS."

HE DECLARED "ALL THE WORLD IS INCENSED BY THE BRAZEN PROVOCATIONS OF THE AMERICAN MILITARY, WHO SEND SPY PLANES INTO THE AIR...WE HAVE TAUGHT THEIR AIR PIRATES A LESSON AND WE SHALL TO LIKEWISE IF THE PROVOCATEURS DO NOT LAY OFF."

TASS SAID HE ADDED:

"IN OUR STRUGGLE FOR PEACE, WE PROCEED FROM THE LENINIST TEACHING ON THE POSSIBILITY OF PEACEFUL COEXISTENCE BETWEEN COUNTRIES WITH DIFFERING SOCIAL SYSTEMS, FROM THE ACTUAL CORRELATION OF FORCES IN THE WORLD ARENA."

"WHEN WE INSIST THAT THERE IS NO FATAL INEVITABILITY OF WAR IN OUR EPOCH, THAT THERE ARE CONCRETE POSSIBILITIES OF PREVENTING WAR, WE RELY ON THE STEADILY GROWING MATERIAL POTENTIAL AND GREAT MORAL AUTHORITY OF THE SOVIET UNION AND ALL THE SYSTEM OF WORLD SOCIALISM."

"BUT ALTHOUGH THERE IS NO FATAL INEVITABILITY, THE DANGER OF WAR STILL EXISTS...HENCE THE NEED OF BEING VIGILANT AND OF FURTHER PERFECTING OUR NATIONAL DEFENCES..."

A34

U.S.-BRITISH BUDGET (450)

BY RAYMOND E. PALMER

LONDON, JULY 17 (AP)-BRITISH NEWSPAPERS TODAY DEMANDED TIGHTER BRITISH CONTROLS OVER FLIGHTS BY AMERICAN PLANES FROM BASES IN THE UNITED KINGDOM. FEARS WERE EXPRESSED THAT EXISTING ARRANGEMENTS FOR U.S. BASES IN BRITAIN ARE NOT SPECIFIC ENOUGH.

"TOO MUCH IS LEFT TO UNWRITTEN AGREEMENTS FOR OUR PEACE OF MIND," SAID THE CONSERVATIVE SUNDAY DISPATCH, REFLECTING THE GENERAL TONE OF THE EDITORIALS.

THE WORRY OF THE BRITISH PRESS WAS CLEARLY BROUGHT ON BY THE ROCKET THREATS OF SOVIET PREMIER NIKITA KHRUSHCHEV AFTER THE RUSSIANS SHOT DOWN AN AMERICAN RB47 OVER THE BARENTS SEA ON JULY 1. THE RB49 TOOK OFF FROM A BASE IN BRITAIN.

THE BRITISH NEWSPAPERS TOOK THE VIEW THAT THE AMERICAN BASES WERE NECESSARY AS PART OF THE WESTERN DEFENSE SETUP BUT VOICED CONCERN THAT THE BRITISH GOVERNMENT SEEMED TO HAVE LITTLE CONTROL OVER THE OPERATIONS.

"THE AMERICANS SHOULD NO LONGER BE ALLOWED TO USE THESE BASES AS THEY PLEASE," SAID THE SOCIALIST REYNOLDS NEWS. "IN PARTICULAR, THEY MUST NOT BE ALLOWED TO USE THEM AS STAGING POSTS OR STARTING POINTS FOR SPY FLIGHTS."

THE INDEPENDENT NEWS OF THE WORLD DECLARED:

"IT SEEMS TO HAVE BEEN FORGOTTEN THAT BRITISH BASES ARE USED FOR FLIGHTS WHICH CAN PROVOKE RESENTMENT AND EVEN REPRISAL, BUT THIS COUNTRY DOES NOT KNOW WHY OR WHEN."

"THE PURPOSE AND PLACE OF SUCH MISSIONS ARE DECIDED ON THE STRENGTH OF AN AMBIGUOUS AGREEMENT. THIS SHOULD NOT GO ON. THIS COUNTRY SHOULD BE AN EQUAL ALLY, NOT A PARTNER ALLOWED ONLY TO WATCH OTHERS DEAL FROM THE PACK."

THE SUNDAY DISPATCH TIED ITS FEARS ABOUT EXISTING ARRANGEMENTS TO THE UNCERTAINTY OF THE FORTHCOMING AMERICAN PRESIDENTIAL ELECTIONS.

"WHICHEVER PRESIDENTIAL CANDIDATE IS ELECTED," IT SAID, "MR. (PRIME MINISTER) HAROLD MACMILLAN WILL SOON BE DOING BUSINESS WITH A MUCH TOUGHER PRESIDENT THAN HIS OLD FRIEND IKE....MR. MACMILLAN HAS A FEW WEEKS LEFT IN WHICH TO DO SOME TYING UP OF LOOSE ENDS. THE MOST OBVIOUS ONE IS OUR AGREEMENT WITH THE AMERICANS OVER THE OPERATION OF UNITED STATES BOMBERS FROM BRITISH BASES."

THE PAPER SAID THE RB47 INCIDENT PINPOINTED THE KIND OF SITUATION WHICH "IN THE EASYGOING DAYS OF THE EISENHOWER ADMINISTRATION COULD ALL TOO EASILY OCCUR..."

THE INDEPENDENT SUNDAY TIMES SAID:

"WE HAVE BOTH THE RIGHT AND THE DUTY TO INSIST ON CERTAIN OVER-ALL CONDITIONS OR LIMITATION. ONE IS THAT THE GENERAL PROGRAM OF OPERATIONS AND THE GOVERNING INSTRUCTIONS FOR IMPLEMENTING IT SHOULD BE KNOWN TO US AS PARTIES TO A JOINT ACTIVITY (SINCE IT IS CONDUCTED FROM OUR SOIL) AND SHOULD BE OPEN TO NEGOTIATION."

"ANOTHER IS THAT NO OPERATION SHOULD BE CARRIED OUT IN SUCH A WAY AS TO EFFECT A CASUS BELLI, TO BE NEEDLESSLY PROVOCATIVE OR TO RUN THE RISK OF DAMAGING OUR RELATIONS WITH OTHER ALLIES--FOR INSTANCE BY DELIBERATELY USING THEIR AIR SPACE WITHOUT THEIR KNOWLEDGE."

"THIS IS NOT BEING PANICKY OR PERNICKETY....FOR THE OBJECT OF THE EXERCISE IS TO INCREASE SAFETY, AND IF IT INCREASES RISK IT DEFEATS ITSELF."

ML205PED

A74

OSLO, NORWAY, JULY 17 (AP)-NORWEGIAN FOREIGN MINISTER HALVARD LANGE TODAY SAID EVERYTHING INDICATES THE AMERICAN RB47 RECONNAISSANCE PLANE WAS OVER INTERNATIONAL WATERS WHEN IT WAS SHOT DOWN BY THE RUSSIANS JULY 1.

IN A SPEECH TO A NORDIC SOCIAL DEMOCRAT YOUTH CONGRESS LANGE TERMED GROUNDLESS THE SOVIET ACCUSATIONS OF NORWEGIAN PARTICIPATION IN THE LATEST INCIDENT AND IN THE U2 SPY FLIGHT MAY 1.

FV443PED

A181WX

(800) ADVANCE FOR AMS OF MONDAY, JULY 18

BY VERN HAUGLAND

ASSOCIATED PRESS AVIATION REPORTER

(ADVANCE) WASHINGTON, JULY 17 (AP)-A LOCKHEED U2 AIRPLANE OF THE TYPE THAT WENT DOWN IN RUSSIA MAY 1 LOST POWER BRIEFLY OVER THE ANTARCTIC OCEAN, SOUTH OF CAPE HORN.

ANOTHER MADE A MIDWINTER DEAD-STICK LANDING ON A FROZEN LAKE IN NORTHERN SASKATCHEWAN, CANADA.

IN SPITE OF SUCH HAZARDS IN FAR CORNERS OF THE WORLD, THE LONG-WINGED GLIDER-LIKE AIRCRAFT CONTINUES TO GATHER INFORMATION THAT ALREADY, THE DEFENSE DEPARTMENT SAYS, HAS PROVIDED SCIENCE WITH AN INSIGHT AS TO THE KIND OF GLOBAL FALLOUT A NUCLEAR WAR MIGHT PRODUCE. THE TIME OF THE ANTARCTIC AND CANADIAN INCIDENTS WAS NOT DISCLOSED.

DETAILS OF THE U2 HASP--HIGH ALTITUDE SAMPLING--PROGRAM, AND THE FIRST OFFICIAL DESCRIPTIONS OF THE AIRPLANE'S UNIQUE EQUIPMENT, ARE GIVEN IN A SPECIAL REPORT BY THE DEFENSE ATOMIC SUPPORT AGENCY TO THE GOVERNMENT OF ARGENTINA.

OF SOME 4,000 HIGH ALTITUDE SAMPLINGS BY SIX U2S OF THE STRATEGIC AIR COMMAND'S 4080TH STRATEGIC RECONNAISSANCE WING, FROM AUGUST, 1957, THROUGH LAST MAY, MORE THAN 1,400 WERE GATHERED ON FLIGHTS BY THREE OF THE PLANES FROM EZEIZA AIRPORT, BUENOS AIRES. THIS DOES NOT INCLUDE MORE RECENT SPOT-CHECK FLIGHTS FROM EZEIZA WITHIN THE PAST TWO MONTHS, TO BE SUMMARIZED IN LATER REPORTS.

"A SIGNIFICANT CONTRIBUTION HAS BEEN MADE TO OUR UNDERSTANDING OF STRATOSPHERIC CIRCULATION IN GENERAL AND THE WORLD WIDE DISTRIBUTION OF TEST-PRODUCED NUCLEAR DEBRIS IN PARTICULAR," SAID REAR ADM. EDWARD

N. PARKER, DASA CHIEF, IN RELEASING THE REPORT.
"THE INFORMATION GAINED (ON THE PATHWAYS FOLLOWED BY WORLDWIDE
FALLOUT FROM PAST NUCLEAR TESTS) WOULD NOT HAVE BEEN AS MEANINGFUL
AS IT IS WITHOUT THE DATA OBTAINED IN THE SOUTHERN HEMISPHERE THROUGH
THE COOPERATION OF THE GOVERNMENT OF ARGENTINA."
AIR FORCE MAJ. ALBERT K. STEBBINS III, EDITOR OF THE REPORT, SAID
THE U2 PILOT WHO MADE AN ENGINE-OUT LANDING ON A FROZEN LAKE IN
CANADA ESCAPED INJURY, AND HIS PLANE WAS FLOWN OUT LATER.
AS FOR THE U2 THAT EXPERIENCED A FLAME-OUT SOUTH OF THE SOUTHERN
TIP OF SOUTH AMERICA, STEBBINS SAID, THE PILOT MANAGED TO RE-START
THE ENGINE IN TIME TO AVOID A DITCHING IN THE LONELY WATERS OF THE
ANTARCTIC.

THE REPORT VOICED THE U.S. GOVERNMENT'S THANKS FOR THE RIGHT TO
CONDUCT U2 FLIGHTS NOT ONLY OVER CANADA AND ARGENTINA, BUT ALSO OVER
MEXICO, VENEZUELA, BRAZIL, BOLIVIA AND PARAGUAY.

"SIGNIFICANT PROGRESS HAS BEEN MADE IN THE HASP PROGRAM," STEBBINS
SAID.

"A RATHER CLEAR PICTURE IS EMERGING ON HOW PARTICULATE MATTER IS
INJECTED INTO THE STRATOSPHERE, HOW IT IS CIRCULATED, AND HOW IT IS
SUBSEQUENTLY DEPOSITED UPON THE GROUND.

"THE U2 FLIGHTS HAVE GIVEN US THE MOST DEFINITIVE EVALUATION YET
ACHIEVED OF THE ROLE THAT THE STRATOSPHERE PLAYS IN THE DISTRIBUTION
OF RADIOACTIVE FALLOUT FROM NUCLEAR TESTS."

THE REPORT DESCRIBED THE U2 AS AN UNARMED, SINGLE ENGINE JET PLANE
WITH A CREW OF ONE.

IT HAS TANDEM LANDING GEAR AND OUTRIGGER WHEELED STRUTS, SOMETIMES
REFERRED TO AS POGO STICKS. THE STRUTS DROP OFF WHEN THE PLANE BECOMES
AIRBORNE.

THE PLANE LANDS WITH THE AID OF A DRAG PARACHUTE. AFTER THE
LANDING ROLL, WING TIP SKIDS PREVENT DAMAGE TO THE CRAFT.

EACH U2 IS FITTED WITH A DUCT IN THE NOSE, AND SAMPLING STARTS
WHEN THE PILOT OPENS THE NOSE DOOR TO ALLOW AIR TO ENTER THE DUCT.

THE DUCT WIDENS GRADUALLY TO A 10-INCH DIAMETER AT THE POINT AT
WHICH FILTERS ARE LOCATED. THE FILTERS ARE OF A PAPER CONSISTING OF
COTTON FIBERS WITH GAUZE BACKING. THE FIBERS ARE IMPREGNATED WITH
DI-BUTOXYETHYL PHTHALATE, A STICKY, OILY SUBSTANCE DESIGNED TO RETAIN
MINUTE PARTICLES.

THE FILTERS WERE DEVELOPED BY THE INSTITUTE OF PAPER CHEMISTRY,
APPLETON, WIS., AND BY PROF. ELLIOTT G. REID OF STANFORD UNIVERSITY,
PALO ALTO, CALIF., UNDER THE DIRECTION OF ISOTOPES, INC., WESTWOOD,
N.J.

LOCKHEED AIRCRAFT CORP., BURBANK, CALIF., DESIGNED A SAMPLER
CAPABLE OF EXPOSING FOUR FILTER PAPERS CONSECUTIVELY. THIS HAS
ENABLED EACH U2 TO TAKE FOUR UPPER AIR SAMPLES ON EACH FLIGHT.

IN A SPACE BEHIND THE PILOT, A PANEL CONTAINING AN ALTIMETER,
CLOCK, TEMPERATURE GAUGE AND FILTER POSITION INDICATOR LIGHTS IS
PHOTOGRAPHED EVERY 15 SECONDS AFTER SAMPLING STARTS.

DESCRIBED AS ESSENTIALLY A SOARING PLANE, THE U2 IS POWERED BY A
PRATT & WHITNEY J57 JET ENGINE CAPABLE OF UP TO 10,000 POUNDS OF
THRUST. IT HAS A RANGE OF 3,000 MILES, A SPEED OF 475 MILES AN HOUR,
AND "VERY LIMITED COMMUNICATION AND NAVIGATION EQUIPMENT."

THE REPORT GIVES ITS FLIGHT DURATION AS 7 1/2 HOURS AND ITS
ALTITUDE AS 70,000 FEET. SOME 2,500 SAMPLINGS ALSO HAVE BEEN TAKEN
ON U2 FLIGHTS FROM LAUGHLIN AIR FORCE BASE, TEXAS, PLATTSBURGH AIR
FORCE BASE, N.Y., AND RAMEY AIR FORCE BASE, PUERTO RICO. SAMPLING
WAS CARRIED OUT AS FAR SOUTH AS 57 DEGREES SOUTH LATITUDE AND AS FAR
NORTH AS 71 DEGREES NORTH LATITUDE, BETWEEN WHICH LIES ABOUT 90
PER CENT OF THE EARTH'S ATMOSPHERE.

THE SAMPLES ARE ANALYZED FOR SUCH PARTICLES AS PLUTONIUM, STRONTIUM
90 AND CESIUM 137, CONSIDERED POTENTIALLY HAZARDOUS; STRONTIUM 89,
YTTRIUM 91, CERIUM 144 AND TUNGSTEN 185, USEFUL FOR ESTIMATING THE

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AGE OF ATMOSPHERIC DEBRIS; AND TUNGSTEN 185, RHODIUM 102, BERYLLIUM
7, PHOSPHORUS 32, SODIUM 22, BARIUM 140, ZIRCONIUM 95 AND TUNGSTEN 95.
THE DASA REPORT SAID MEASUREMENTS OF GASEOUS NUCLEAR DEBRIS SUCH
AS CARBON 14, COUPLED WITH HASP MEASUREMENTS OF PARTICULATE DEBRIS
SUCH AS STRONTIUM 90, INDICATE THAT SOVIET NUCLEAR INJECTIONS BEFORE
OCTOBER 1958 WERE ALL AT LOW ALTITUDES IN THE POLAR STRATOSPHERE AND
MADE NO LONG RANGE CONTRIBUTION TO THE STRATOSPHERIC BURDEN OF NUCLEAR
DEBRIS.

VIRTUALLY ALL OF THE "HOT" CARBON 14 SAMPLES WERE ATTRIBUTABLE
TO DEBRIS FROM U.S. TESTS IN THE PACIFIC, THE REPORT SAID. IT ADDED:

"ALL INFORMATION THUS FAR ACCUMULATED INDICATES THAT FALLOUT
CONSTITUTES A HAZARD TO THE HUMAN POPULATION WHICH IS SMALL COMPARED
TO THE HAZARD FROM NATURAL RADIATION."

END ADVANCE FOR AMS OF MONDAY, JULY 18--SENT JULY 16

R71223AEDNM

A77WX

ADVANCE FOR 5:30 P.M. EST SUNDAY JULY 17

(250) COMMUNISTS-STUDENTS

(ADVANCE) WASHINGTON, JULY 17 (AP)--FBI CHIEF J. EDGAR HOOVER TODAY
SAID RECENT STUDENT RIOTS IN SAN FRANCISCO PROVE AMERICAN YOUTH IS NO
MORE IMMUNE TO COMMUNIST MANIPULATION THAN STUDENTS IN JAPAN AND URUGUAY.
HOOVER PICTURED THE SAN FRANCISCO DEMONSTRATIONS, WHICH FLARED DURING
HEARINGS BY THE HOUSE COMMITTEE ON UN-AMERICAN ACTIVITIES LAST MAY 12-
14, AS PART OF A WORLDWIDE COMMUNIST CAMPAIGN.

HE SAID THE COMMUNISTS ARE PLANNING MORE STUDENT DEMONSTRATIONS IN
THE UNITED STATES.

HOOVER ADVANCED THESE VIEWS IN AN ILLUSTRATED 18-PAGE REPORT MADE
PUBLIC TODAY BY THE HOUSE COMMITTEE ON UN-AMERICAN ACTIVITIES.

THE REPORT RELATED IN DETAIL WHAT HOOVER CALLED THE ROLE OF CALIFOR-
NIA COMMUNIST LEADERS IN ENGINEERING AND FINANCING THE SAN FRANCISCO
RIOTING, WHICH WAS QUELLED ONLY AFTER POLICE TURNED FIRE HOSES ON THE
DEMONSTRATORS.

IN ALL, 68 DEMONSTRATORS, MOST OF THEM STUDENTS FROM NEARBY COLLEGES,
WERE ARRESTED FOR INCITING A RIOT AND RESISTING ARREST. CHARGES AGAINST
62 OF THEM WERE LATER DISMISSED.

AFTER THE INCIDENT 58 OF THOSE ARRESTED SIGNED A STATEMENT INSISTING
NOBODY HAD INCITED THEM TO ACT.

HOOVER'S REPORT CONTAINED TWO PHOTOGRAPHS SHOWING WHAT HE IDENTIFIED
AS KNOWN COMMUNISTS MINGLING WITH THE STUDENT CROWDS OUTSIDE THE HEARING
ROOM.

HOOVER SAID THE AMERICAN COMMUNIST PARTY WAS ELATED WITH WHAT HAP-
PENED AND BELIEVED THE RIOT WAS THE BEST THING FOR THE PARTY THAT HAD
HAPPENED IN YEARS. HOOVER ADDED:

"THE FEELING WAS THAT NOT ONLY HAD THE PARTY TAKEN A MAJOR STEP
TOWARD ITS GOAL OF ABOLISHING THE HOUSE COMMITTEE ON UN-AMERICAN ACTIVI-
TIES BUT ALSO IT HAD TAKEN A MAJOR STEP TOWARD PLAYING A GREATER ROLE ON
THE AMERICAN SCENE."

EG458PED

AP47

JAPANESE BUDGET (370)

BY KENNETH ISHII

TOKYO, JULY 17 (AP)--THE JAPANESE PARLIAMENT MEETS IN SPECIAL SESSION
TOMORROW TO MAKE HAYATO IKEDA THIS NATION'S NINTH PRIME MINISTER SINCE
WORLD WAR II.

IKEDA, 60, AN ECONOMIC EXPERT, QUALIFIED FOR THE JOB OF
HEADING JAPAN'S 17TH POSTWAR CABINET BY WINNING ELECTION AS PRESIDENT
OF THE RULING LIBERAL-DEMOCRATIC PARTY. HE SUCCEEDS NOBUSUKE KISHI IN
BOTH POSTS.

IKEDA'S SELECTION IS A DEMONSTRATION THAT THE RECENT LEFT-WING DEMONSTRATIONS AND OUTSIDE COMMUNIST THREATS HAVE DONE NOTHING TO DETER JAPAN FROM ITS ALIGNMENT WITH THE WEST.

IKEDA, WHO WAS KISHI'S INTERNATIONAL TRADE AND INDUSTRY MINISTER, HAS INDICATED HE WILL PURSUE THE SAME PROWESTERN POLICIES OF HIS EX-CHIEF. THIS MEANS SUPPORT OF THE NEW U.S.-JAPAN SECURITY TREATY THE LEFTISTS TRIED SO HARD TO BLOCK.

IT ALSO MEANS CONTINUING CLOSE TRADE TIES BETWEEN THE TWO COUNTRIES. AS THE ENFORCER OF ANTI-INFLATIONAR POLICIES THAT LAID THE FOUNDATION OF JAPAN'S PROSPERITY, NO ONE KNOW BETTER THAN IKEDA HOW HEAVILY JAPAN'S ECONOMIC WELLBEING IS DEPENDENT ON TRADE WITH AMERICA.

IT IS ALSO CONSIDERED LIKELY, HOWEVER, THAT IKEDA MAY PUSH MUCH HARDER THAN HAVE PREVIOUS GOVERNMENTS FOR NORMALIZING TRADE RELATIONS WITH COMMUNIST CHINA.

HOW FAR IKEDA GOES WOULD DEPEND ON WHETHER PEIPING REACTS TO JAPANESE OVERTURES AS IT DID BEFORE, BY INISITING THAT TRADE GO HAND-IN-HAND WITH DIPLOMATIC RECOGNITION, SOMETHING JAPAN HAS REFUSED TO GRANT BECAUSE OF ITS RELATIONS WITH THE NATIONALIST CHINESE GOVERNMENT.

WITH THE ANTISECURITY TREATY FIGHT VIRTUALLY OVER, THE SOCIALISTS, WHO WANT CLOSER TIES WITH PEIPING AND MOSCOW, WERE EXPECTED TO LOOK FOR OTHER ISSUES TO EMBARRASS THE GOVERNMENT.

HOWEVER, IN HIS FIRST MEETING WITH NEWSMEN AS PARTY PRESIDENT LAST THURSDAY, IKEDA DECLARED HIS FIRST MAIN JOB WAS TO REPAIR THE DAMAGE TO JAPAN'S INTERNATIONAL PRESTIGE CAUSED BY THE RECENT LEFT-WING DEMONSTRATIONS AND VIOLENCE.

IKEDA IS SCHEDULED TO ANNOUNCE A CABINET LINEUP IN ABOUT A WEEK.

THE NEXT GENERAL ELECTION, EIGHTH SINCE THE WAR, IS EXPECTED TO RETURN THE LIBERAL-DEMOCRATS TO POWER. WHETHER THEY WILL WIN MORE OR LESS THAN THE 286 SEATS THEY NOW CONTROL IN THE LAW-MAKING LOWER HOUSE WILL DEPEND HEAVILY ON IKEDA.

HE STARTS WITH A HANDICAP. SOME TWENTY YEARS AGO, HE SAID THAT "IF THE PEOPLE CANNOT AFFORD RICE, THEY CAN EAT WHEAT. WHAT THE EFFICIENT BUT OFTEN TACTLESS MAN MEANT WAS THAT JAPANESE SHOULD TIGHTEN THEIR BELTS AND FOREGO LUXURIES IF THE COUNTRY WAS TO GET BACK ON ITS FEET.

BUT THE PHRASE IS REMEMBERED. ONE NEWSPAPER COMMENTATOR HAS ALREADY DUBBED IKEDA HEAD OF THE "EAT WHEAT ADMINISTRATION".

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(140)

NEW YORK, JULY 17 (AP)-NEWSWEEK MAGAZINE SAYS TUVIA FRIEDMANN, THE ISRAELI AGENT WHO TRACKED DOWN ACCUSED NAZI KILLER ADOLF EICHMANN, IS IN A "HIDE-OUT" APARTMENT IN MANHATTAN.

IN ITS FORTHCOMING ISSUE, NEWSWEEK SAYS FRIEDMANN BELIEVES HIS LIFE IS IN DANGER BECAUSE OF NAZI AGENTS HERE AND ELSEWHERE THROUGHOUT THE WORLD.

"I HAVE TO BE CAREFUL--ALWAYS," THE MAGAZINE QUOTED FRIENDMANN AS SAYING. "THE NAZIS ARE ALL OVER, EVERYWHERE--IN SOUTH AMERICA, IN THE MIDDLE EAST PROTECTED BY THE ARABS--THEY ARE EVEN HERE. AND I AM THEIR GREAT ENEMY."

THE MAGAZINE SAYS FRIEDMANN IS IN NEW YORK PREPARING HIS MEMOIRS FOR PUBLICATION. HE HEADS THE NAZI WAR CRIMES DOCUMENTATION CENTER IN HAIFA, ISRAEL.

EICHMANN, CAPTURED IN ARGENTINA EARLIER THIS YEAR, IS THE FORMER CHIEF OF THE GESTAPO'S JEWISH AFFAIRS SECTION AND IS ACCUSED OF MURDERING SIX MILLION JEWS.

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BUENOS AIRES, ARGENTINA, JULY 17 (AP)-POLICE SOURCES EXPRESSED BELIEF TODAY DR. JOSEPH MENGELE, FORMER MEDICAL OFFICER AT THE NAZI'S AUSCHWITZ CONCENTRATION CAMP, HAS FLED ARGENTINA, PROBABLY TO BRAZIL. WEST GERMANY HAD ASKED HIS EXTRADITION TO FACE WAR CRIMES CHARGES.

THERE WAS NO OFFICIAL COMMENT, BUT THE UNOFFICIAL STORY IS THAT HE SLIPPED AWAY WITH FORGED DOCUMENTS AND UNDER A FALSE NAME SHORTLY AFTER ADOLF EICHMANN WAS SEIZED HERE BY ISRAELI AGENTS. EICHMANN IS NOW AWAITING TRIAL IN ISRAEL ON CHARGES INVOLVING THE DEATHS OF SIX MILLION EUROPEAN JEWS IN THE NAZI ERA.

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End July 17, 1960